



TRIPLE-GRID DETECTOR AMPLIFIER For applications critical as to microphonics

	For application	s critical as	to microphonics	
>		Unipotential	Cathode	0 val+a
	Voltage Current	6.3 0.3	a-c or d-	amp.
	Direct Interelectrode C			
	Pentode Connection			
	Grid to Plate Input	0.005 max. 7.0		μμτ μμτ
	output	12.0		μμt
	Maximum Overall Length			3-1/8"
	Maximum Seated Height			2-9/16"
	Maximum Diameter			1-5/16"
	Bulb		Metal Shel	1, MT-8
	Cap	0.0	Mi	niature
	Base	4) (5)	Small Wafer Octa	
	Pin 1-Shell	3/1=1/	Pin 5 - Suppr	essor
	Pin 2-Heater		Pin 7-Heate	
	Pin 3-Plate		Pin 8 - Catho	de
	Pin 4 - Screen	() KEY (B)	Cap - Grid	
	Mounting Position	BOTTOM VIEW	•	Any
	Maximum Ratings Are Design-Center Values			
	AMPLIFIER - Pentode Connection			
		N - Tentode Ci		1.
	Plate Voltage			volts
	Screen Voltage			volts
►	Typical Operation and C			
	Plate	100		volts
	Screen	100		volts
	Grid #	-3 Connected to		volts
	Suppressor		cathode at socke	
	Plate Res.	1.0		megohm
	Transcond.	1185	1225	µmhos
	Grid Bias for cathode	_	7	14
	current cut-off	_7 2.0		volts
	Plate Cur.	2.0		ma.
	Screen Cur.	0.5		ma.
	AMPLIFIER - Triode Connection OO			
-	Plate Voltage		250 max.	
	Typical Operation and C	Characteristic	s - Class A ₁ Ampl	ifier:
	Plate Grid#	180 -5.3	250	volts volts
	Amp. Fact.	20	20	10113
	Plate Res. Transcond.	11000	10500 1900	ohms
	Plate Cur.	5.3	6.5	µmnos ma.
	For cathode-bias operati	on of the 1620	a minimum cathode-	resistor
>	hv—mass condenser of 25 u	if is recommended	d to minimize hum.	particu-
	When a 25 µf condenser or	larger is used	, the voltage differ	ence be-
	larly in circuits where the 1620 is followed by high-gain stages. When a 25 µf condenser or larger is used, the voltage difference between heater and cathode is not critical, but it should be kept as low as possible. If less than a 25 µf condenser is used, positive			
	I or negative biasing of the heater with respect to the Cathode is re-			
	quired, but the bias value chosen for minimum hum should be within the range of +5 to +50 volts or -5 to -50 volts.			
	With shell connected to cathode.			
	# Under maximum rated conditions, the d-c resistance in the grid cir- cuit should not exceed 1.0 megohm.			
	Greater than 1.0 megohm.		✓ Indicates a	change.
	screen and suppressor tre	•		
	OUTLINE DIMENSIONS for			1612.
	Curves under Tyt	e 617 also ap	oply to the 1620.	